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Bagging Machine Controller

SQ Series



The SQ series versatile controller is programmed exclusively for bagging systems. The high speed Analog to digital convertor with anticipatory control can control the feed into the bag in coarse feed, fine feed and ultra fine mode. The controller can be configured for loss in weight or conventional bagging configuration in direct bagging or pre-weigh and dump mode. The controller can accept external inputs from foot switch, bag clamp sensors, gate position sensors and storage hopper level sensor. The controller has got a bag counter, material totalizer and can also retransmit the weight data in real time to down the line equipments. The controller also has features to store and download the data collected to a USB memory device. Connectivity with this controller can be through RS-485 modbus and through analog interfaces.

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Technical Specifications

Applications

- Bagging Controller
- General Weighing Indicator
- Crane Weighing System
- Belt Weighing Scale
- Solid Flow Meter Controller
- Batching System
- Force Measurement System



Note: All the specifications given above are for general information only. These are subject to change during detailed engineering.

PARAMETER	MIN.	TYP.	MAX.	UNIT
Power Supply				
Supply Voltage	12	24	40	V DC
Supply Current	-	300	1000	mA
Environmental				
Operating Temperature		55		°C
Storage Temperature		55		°C
Load-cell Input				
Excitation Voltage	4.8	5	5.2	V dc
Excitation Current	-	-	250.0	mA
Input Range	-18.0	-	+18.0	mV
Input impedance		10		MΩ
Input Sensitivity	-	0.1	-	μv/div
Non-linearity		0.01		% FS
Gain Temperature Stability	-	±5	-	ppm/°C
ADC Converter	24 bit Sigma Delta Converter			
Conversion Rate	80 Hz			
Internal Resolution	1 in 15000000 Counts			
RS485 Interface for Remote/PLC				
Bus type	Half duplex			
Number of transceivers	-	-	254	-
Baud rate	4800	-	115200	-
Cable length			1000	meters
Protocol	MODBUS RTU / ASCII String (Custom format)			
Programmable Parameters				
	Calibration			
	Decimal Point			
	Filter			
	Coarse Feed, Fine Feed, Ultra Fine Feed, Inflight			
Display Parameters				
	Load			
	Totalizer			
	Bag Counter			
	Faults			
Digital Inputs				
Number of inputs	4 Nos. a) Bag Clamp (from foot switch) b) Product Selection c) Product Selection d) Product Selection			
Input Type	Opto-isolated			
Input Voltage	5	-	24	V dc
Digital Outputs				
Number of outputs	5 Nos. a) Coarse Feed b) Fine Feed c) Ultra Fine Feed d) Gate Open e) Bag De-clamp			
Output Type	Open collector NPN Darlington transistor			
Collector Voltage	-	-	40	V DC
Continuous Current	-	-	500	mA/channel
HMI Interface				
Display	Graphic LCD - 32mm(H) x 104mm (L); 192x64 pixels			
Keypad	8 push-button keys			

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